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L J Balasundaram* (jagbala@comcast.net), Harvard Institute for Learning in Retirement, 51 Brattle Street, Cambridge, MA 02138. *A Set of Quadratic Equations For Factoring or Primality Determination of odd $6^n +$ or -1 Type Odd Integers.*

Positive integers of $6^n +$ or -1 pattern consist of prime numbers and composite integers for integer values $n > 0$. Digital addition of these integers show a repetitive pattern of 5,2 and 8 for $(6^n - 1)$ type integers and 7,4, and 1 for $(6^n + 1)$ type integers. Based on this digital addition repetition pattern Quadratic Formulas for for factoring or primality determination of these type of integers are advanced. (Received July 26, 2011)